



Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/795,944
Filing Date	March 8, 2004
First Named Inventor	Jeffrey Held, et al.
Art Unit	1724
Examiner Name	P. Hruskoci
Attorney Docket Number	

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (# known)			
PAH		France 2,327,965	6/17/1977	ITT Industries	—
PAH		JP 1,210,100	8/23/1989	Yoshio	—
PAH		JP 1,307,500	12/12/1989	Ishigaki	—
PAH		DE 4,101,076	8/8/1991	Doevenspeck	—

Examiner Signature	P.A. HEUSKOCJ	Date Considered	12/13/04
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Translation is attached.
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Substitute for form 1449A/B/PTO				Complete / Known	
				Application Number	10/795,944
				Filing Date	March 8, 2004
				First Named Inventor	Jeffrey Held
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number 30811/40225	

U.S. PATENT DOCUMENTS					
Examiner Initiates*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
10004	980,483		01/1911	Welcome	
	3,280,982		10/1986	Barto	
	3,397,140		08/1988	Dee	
	3,670,891		06/1972	Allen	
	3,698,806		10/1972	Gallo	
	3,913,500		10/1975	Peccione et al.	
	3,862,069		08/1976	Inoue et al.	
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	4,620,493		11/1986	Carlson	
	4,655,932		04/1987	Roslonski	
	4,671,874		06/1987	Fremont et al.	
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	4,755,305		07/1988	Fremont et al.	
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	4,971,705		11/1990	Roslonski	
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	5,037,560		08/1991	Gayman	
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	5,143,626		09/1992	Nugent	
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	5,846,425		12/1998	Whiteman	
	5,893,979		04/1999	Held	
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Examiner Signature	P. A. Hruskoci	Date Considered	9/28/04
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PTO/SB/08a/b (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1445A/B/PTO				Complete If Known	
				Application Number	10/795,944
				Filing Date	March 8, 2004
				First Named Inventor	Jeffrey Held
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	30811/40225

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PAH		JP-53-91468	11/1978	—	—	
		JP-60-25597	08/1985	—	—	
N		WO 99/24372	05-20-1999	Held, J.	—	
PAH		WO 02/04358	01-17-2001	Held et al.	—	

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NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
PAH	C1	Gaudy, et al., "The Microbiology of Waste Disposal", <i>The Microbiology of Waste Waters</i> , W.B. Saunders & Comp., chapter 36, 1971.				
	C2	Curtiss, "Bacterial Cell Wall," <i>Microbiology</i> , W.W. Norton & Co., 1976.				
	C3	Morrissey et al., <i>Sterilization Methods Used in Microbiology, Sterilization Technology</i> , 1993.				
	C4	Gupta, R.P., "Pulsed High Electric Field Sterilization".				
	C5	"Controlling Fluid Flow with Porous Metals", <i>Machine Design</i> , January 8, 1987.				
	C6	Newmet-Thermet Krebscope Company, "Porous Metal Products" products brochure.				
	C7	Graham Mfg. Co., "Heltiflow Heat Exchanger".				
	C8	"Merlen OPTT Series Pump/Stuffer" product brochure.				
PAH	C9	Chauhan, S., "Feasibility of Biosludge Dewatering Using Pulsed Electric Fields," Battelle Final Report, 1-24 (1998).				

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	P.A. Hrusko C1	Date Considered	9/28/04
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Form PTO-1449 (Modified)		Atty. Docket No. 30811/40225	Serial No. 10/795,944
INFORMATION DISCLOSURE STATEMENT		Applicant(s) Held et al.	
		Filing Date March 8, 2004	Art Unit 1724

*3:1 P.E. JCSP
NOV 03 2004
EXAMINER'S DRAFTING DOCKET*

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Issue or Publication Date	Name	Class	Subclass	Filing Date (If Appropriate)
<i>PAA</i>	3,265,605	8/9/66	Doevenspeck	204	165	
	4,592,291	6/3/86	Sullivan III	110	346	
	4,631,133	12/23/86	Axelrod	210	739	
	4,917,785	4/17/90	Juvan	204	164	
	4,957,606	9/18/90	Juvan	204	164	
	5,037,524	8/6/91	Juvan	204	660	
	5,091,079	2/25/92	Gayman	210	175	
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	5,507,927	4/16/96	Emery	204	157.43	
	5,522,553	6/4/96	LeClair et al.	241	21	
	5,630,915	5/20/97	Greene et al.	204	164	
<i>PAA</i>	5,801,489	9/1/98	Chism Jr., et al.	315	111.21	
<i>PAA</i>	6,402,065	6/11/02	Higgins	241	21	

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Examiner Initials	Document Number	Publication Date	Country	Translation	
				Yes	No
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<i>PAA</i>	JP 1-210100	8/23/89	Japan	X	
<i>PAA</i>	JP 1-307500	12/12/89	Japan	Abst.	
<i>PAA</i>	WO98/58740	12/30/98	WIPO	N/A	

EXAMINER: <i>P.A. HEUSKOCI</i>	DATE CONSIDERED: <i>12/7/04</i>
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OTHER DOCUMENTS	
<i>PARK</i>	International Search Report (counterpart to priority application).
<i>PARK</i>	Bradley et al., <i>Bipolar Electrodeposition on Nanotubes</i> (USA).
<i>PARK</i>	Castro et al., <i>Microbial Inactivation of Foods by Pulsed Electric Fields</i> , J. Food Proc. Pres. 17:47-73 (1993) (USA).
<i>PARK</i>	<i>Consideration of Sludge Dewatering Methods</i> in The Microbiology of Waste Waters (W.B. Sauders & Co.) pp.6-8, 17 (1971) (USA).
<i>PARK</i>	Dossenbach et al., <i>Pulse Current Electrodeposition of Palladium Silver Alloys</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium H1-H3 (1986) (USA).
<i>PARK</i>	El-Shazly et al., <i>High-Speed Metal Deposition Using Interrupted Current Techniques</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium C1-C7, C9-C11 (1986) (USA).
<i>PARK</i>	<i>Method Improves Sludge Digestion</i> , Waste Treatment Tech. News v.12 i8 (1996) (USA).
<i>PARK</i>	Gutierrez, <i>Recent Advances in Pulse Plating Power Supply Technology & Plating Capability</i> , AESF 5th Pulse Plating Symposium 1-23 (June 2000) (USA).
<i>PARK</i>	Kady International materials – 4 pages (circa 1999) (USA).
<i>PARK</i>	Kady Internation materials – 2 pages (circa 1999) (USA).
<i>PARK</i>	Koelzer, <i>Back to the Basics: Pulse Math, Plating & Surface Finishing</i> (Dec. 2000) (USA).
<i>PARK</i>	Mertens et al., <i>Developments of Nonthermal Processes for Food Preservation</i> , Food Tech. 46(5):124, 126-133 (May 1992) (USA).
<i>PARK</i>	Milad et al., <i>PPR Plating for HDI</i> , PC Fab, 40, 42, 44, 46 (2000) (USA).
<i>PARK</i>	Peshkovsky et al., <i>Dipolar Interactions in Molecules Aligned by Strong AC Electric Fields</i> , J. Magnetic Resonance, 147:104-109 (2000) (USA).

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<i>PAH</i>	Puippe, <i>Influence of Charge and Discharge of Electrical Double Layer in Pulse Plating in Theory and Practice of Pulse Plating</i> (American Electroplaters and Surface Finishers Society), ch. 4, pp.41-43 (1986) (USA).
<i>PAH</i>	Puippe, <i>Qualitative Approach to Pulse Plating in Theory and Practice of Pulse Plating</i> (American Electroplaters and Surface Finishers Society), ch. 1, pp.1-3 (1986) (USA).
<i>PAH</i>	U.S. Food and Drug Administration, <i>Kinetics of Microbial Inactivation for Alternative Food Processing Technologies – Pulsed Electric Fields</i> (June 2000) (USA).
<i>PAH</i>	Wadehra et al, <i>Reduced Wasting from Activated Sludge Processes Using a Mechanical Cell Lysis Technology</i> in WEFTEC 1999, (1999) (USA).
<i>PAH</i>	Zhang, Q. H., Monsalve-Gonzalez, A., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Inactivation of E. coli and S. cerevisiae by pulsed electric fields under controlled temperature conditions</i> , Transactions of the ASAE. 37(2):581-587 (1994) (USA).
<i>PAH</i>	Zhang, Q. H., Chang, F.-J. and Barbosa-Cánovas, G. V., <i>Inactivation of microorganisms in a semisolid model food using high voltage pulsed electric fields</i> , Lebensm Wiss Technol. 27(6):538-543 (1994) (believed to be Germany).
<i>PAH</i>	Zhang, Q. H., Qin, B.-L., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Inactivation of E. coli for food pasteurization by high-strength pulsed electric fields</i> , J. Food Process Preserv. 19(2):103-118 (1995) (USA).
<i>PAH</i>	Zhang, Q. H., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Engineering aspects of pulsed electric field pasteurization</i> , J. Food Eng. 25(2):261-281 (1995) (Great Britain).
<i>PAH</i>	Zhang, Q. H., Qiu, X. and Sharma, S. K., <i>Recent development in pulsed electric field processing</i> . National Food Processors Association - New Technologies Yearbook. 31-46 (1997) (believed to be USA).

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SHEET 1 of 1

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U.S. PATENT DOCUMENTS

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<i>PAH</i>	5,690,978	11/25/1997	Yin et al.			9/30/1996

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date	Country	Translation	
				Yes	No

OTHER DOCUMENTS

<i>PAH</i>	El-Shazly et al., <i>High-Speed Metal Deposition Using Interrupted Current Techniques</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium C8 (1986) (USA).
<i>PAH</i>	Dentel et al., <i>Overview of Electrical Arc Conditioning of Biosolids</i> in Water Environment Research Foundation: Workshop #116 Recent Advances in Biosolids Research: Conditioning, Dewatering, and Beneficial Use 86-98 (1999) (USA)

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